Test Report
Rate of Spread of Prime Coat

Project Name	Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 08, Byatarayanapura of Yelahanka Zone
Client	Project Division Yelahanka ZONE
Job No	MCTPL/BBMP/YNK/PMC/W-8/2020-2021/2/QR
Mix Type	Wet Mix Macadam
Contractor	M/s. Sai Ram Construction(Prop Sri A.Sathish Gowda),
Location	At Site
Material	Bitumen
Sample No	3
Date	10-Dec-2020

Sl. No.	Determination	Unit	Test No 1 Longitudinal Distribution		
1	Size of Plate (mxn)	m^2	0.2x0.2	0.2x0.2	0.2x0.2
2	Area of the Plate (a)	m^2	0.04	0.04	0.04
3	Initial weight of the empty Plate (b)	kg	1.641	1.641	1.641
4	Final weight of plate after application of Tack Coat (c)	kg	1.694	1.654	1.653
5	Weight of Prime coat/ Tack Coat (d = c-b)	kg	0.053	0.013	0.012
6	Rate of spread (d/a)	kg / m^2	1.325	0.325	0.3
7	Average	kg / m^2	0.667		
8	Specified Limit	kg / m^2	Not less than 0.6 kg / m^2		

Results: Rate of Spread of Prime Coat / Tack Coat is: 0.667 kg / m2

Note:

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ii. The results relate only to the items tested.
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iv. Any query regarding the report must be reported immediately.

For Mecadez Core Technologies Private Limited

Authorised Signature

Test Report
Aggregate Impact Value

Project Name	Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 08, Byatarayanapura of Yelahanka Zone
Client	Project Division Yelahanka ZONE
Job No	MCTPL/BBMP/YNK/PMC/W-8/2020-2021/2/QR
Mix Type	Wet Mix Macadam
Contractor	M/s. Sai Ram Construction(Prop Sri A.Sathish Gowda),
Material	Coarse Aggregate
Test Method	IS : 2386 (Part - 4) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At Site
Sample No	1
Date	8-Dec-2020

Sl. No.	Determination	Unit	Trails	
1	Weight of empty cylinder, w1	gm	960	960
2	Weight of container filled with Aggregate, w2	gm	1309	1307
3	Weight of the Aggregate before compaction, (w2 - w1) = w3	gm	349	347
4	Weight of the sample passing through 2.36 mm IS sieves after Impact, w4	gm	82	85
5	Weight of the sample retained on 2.36 mm IS sieve after Impact, w5	gm	267	262
6	Aggregate Impact Value (w4 / w3)x100	%	23.50	24.50
7	Specified Limit	%	30	

Results: Average Aggregate Impact Value: **24.00** %

Note:

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Test Report
Aggregate Particle Shape

Project Name	Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 08, Byatarayanapura of Yelahanka Zone
Client	Project Division Yelahanka ZONE
Job No	MCTPL/BBMP/YNK/PMC/W-8/2020-2021/2/QR
Mix Type	Wet Mix Macadam
Contractor	M/s. Sai Ram Construction(Prop Sri A.Sathish Gowda),
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse Aggregates
Sample No	1
Date	8-Dec-2020

I.S. Sieves Size			Flakiness Index		Elongation Index	
Passing through IS Sieves (mm)	Retained on IS Sieves (mm)	Weight of Retained Sample on Each Sieve (minimum 200 Pieces) (gm)	Thickness Gauge	Weight of Aggregates in each fraction passing on thickness gauges (gm)	Length Gauge	Weight of Aggregates in Fraction retained on length gauges (gm)
63	50	0	33.9	0	-	0
50	40	0	27	0	81	0
40	25	27	19.5	0	58.5	0
31.5	25	37	16.9	0	-	0
25	20	1572	13.5	252	40.5	270
20	16	1433	10.8	112	32.4	139
16	12.5	970	8.55	165	25.6	172
12.5	10	489	6.75	91	20.2	97
10	6.3	253	4.89	75	14.7	82
	SW	4781	SWf	695	SWe	760

Flakiness Index 14.54 %
Elongation Index 15.90 %
Combined Flakiness and Elongation Indices : 30.43 %

Comments: Maximum allowable Combined Flakiness and Elongation Indices for WMM is 35%

Note:

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For Mecadez Core Technologies Private Limited

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Test Report
Aggregate Gradation

Project Name	Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 08, Byatarayanapura of Yelahanka Zone
Client	Project Division Yelahanka ZONE
Job No	MCTPL/BBMP/YNK/PMC/W-8/2020-2021/2/QR
Mix Type	Wet Mix Macadam
Contractor	M/s. Sai Ram Construction(Prop Sri A.Sathish Gowda),
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Wet Mix Plant
Material	Coarse Aggregates
Sample No	1
Date	8-Dec-2020

Weight of Sample: 4000 gms

Sl. No.	I.S. Sieve size (mm)	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained (%)	Cumulative % of Passing		Remarks
					Test Result	Gradation Limits as per MORT&H	
1	53	0	0.00	0.00	100.00	100	
2	45	110	2.75	2.75	97.25	95-100	Gradation satisfies the MORT&H Specification for Wet Mix macadam
3	22.4	1107	27.68	30.43	69.57	60-80	
4	11.2	808	20.20	50.63	49.37	40-60	
5	4.75	712	17.80	68.43	31.57	25-40	
6	2.36	393	9.83	78.26	21.74	15-30	
7	0.06	297	7.43	85.69	14.31	(8-22)	
8	0.075	447	11.18	96.87	3.13	0-5	

Note:

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Test Report
Liquid and Plastic Limit by Cone Apparatus

Project Name	Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 08, Byatarayanapura of Yelahanka Zone
Client	Project Division Yelahanka ZONE
Job No	MCTPL/BBMP/YNK/PMC/W-8/2020-2021/2/QR
Mix Type	Wet Mix Macadam
Contractor	M/s. Sai Ram Construction(Prop Sri A.Sathish Gowda),
Test Method	Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Wet Mix Plant
Material	Coarse Aggregates
Sample No	1
Date	8-Dec-2020

Sl No	Description	Unit	Liquid Limit	Plastic Limit
	Penetration	mm	Non Plastic	Non Plastic
1	Container No	no		
2	Weight of container,(A)	gm		
3	Weight of container + wet soil, (B)	gm		
4	Weight of container + dry soil, (C)	gm		
5	Weight of water, D=(B - C)	gm		
6	Weight of dry soil, E=(C - A)	gm		
7	Water Content, D/E x 100 (%)	gm		

Comments: <6 so Non Plastic

Note:

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For Mecadez Core Technologies Private Limited

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Test Report
Field Density Test by Sand Replacement Method

Project Name	Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 08, Byatarayanapura of Yelahanka Zone
Client	Project Division Yelahanka ZONE
Job No	MCTPL/BBMP/YNK/PMC/W-8/2020-2021/2/QR
Mix Type	Wet Mix Macadam
Contractor	M/s. Sai Ram Construction(Prop Sri A.Sathish Gowda),
Test Method	IS: 2720 (Part - 16) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	bay
Material	Wet Mix Macadam
Sample No	1
Date	11-Dec-2020

Test Hole No	**1**
MDD	2.24
OMC in %	3.2
Bulk Density Ys	1.392
Weight of Sand In cone W1 (gm)	1195
Weight Of Wet soil From Hole (W2)	4325
Wt Of Sand +Cylinder Before Pouring (W3)gm	17000
Wt Of Sand +Cylinder After Pouring (W4) gm	13154
Wt Of Sand In Hole: W5 = W3 - W4- W1 (gm)	2651
Volume of Hole: V= W5/ Ys	1904.45
Bulk Density Yb= W2/V (gm/cc)	2.27
Moisture Meter Reading (%)	1.52
Moisture Content : w (From Graph In %)	3.31
Dry Density Yd = Yb/(1+W/100)	2.20
Field Compaction(%)	98.14

Note:

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For Mecadez Core Technologies Private Limited

Authorised Signature

Mecadez Core Technologies Private Limited

Project Management and Consultancy Services

Summary of Frequencies of Field Tests and Lab Tests Conducted

Name of the work: **Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 08, Byatarayanapura of Yelahanka Zone**

Job No: **MCTPL/BBMP/YNK/PMC/W-8/2020-2021/2/QR**

Contractor **M/s. Sai Ram Construction(Prop Sri A.Sathish Gowda),**

Sl. No	Particulars of the Tests	Precast Covering Slab			
		Quantity Sqm	Frequency of Tests	Tests Required	Tests Carried Out
IV	**Concrete**				
1	Compressive strength test	183.06	1 to 5cum=1 sample 6 to 15 cum=2 sample 16 to 30cum=3 smaple 31 to 50cum= 4 sample 51cum and above= one additonal sample for every additional 50 cum or part therof	1	1
	7-days				
	28-days				

Note: Frequency of tests as per Specifications MORT&H, V Revision, Section 900.

CONSULTANT

CONTRACTOR

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

Test Report
Concrete Compresive strength

Project Name	Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 08, Byatarayanapura of Yelahanka Zone
Client	Project Division Yelahanka ZONE
Job No	MCTPL/BBMP/YNK/PMC/W-8/2020-2021/2/QR
Mix Type	Precast Covering Slab
Contractor	M/s. Sai Ram Construction(Prop Sri A.Sathish Gowda),
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	1
Casting Date	30-Nov-2020
Tested Date	7-Dec-2020

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	7	6.59	150*150*150	1952.59	316.00	0.0225	14.04	14.19	14.33
2	20	7	6.47	150*150*150	1917.04	320.00	0.0225	14.22		
3	20	7	6.63	150*150*150	1964.44	322.00	0.0225	14.31		
4	20	7	6.89	150*150*150	2041.48	319.00	0.0225	14.18	14.46	
5	20	7	6.75	150*150*150	2000.00	332.00	0.0225	14.76		
6	20	7	6.49	150*150*150	1922.96	325.00	0.0225	14.44		

Results: 7-days Compressive strength of Concrete is 14.33 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 08, Byatarayanapura of Yelahanka Zone
Client	Project Division Yelahanka ZONE
Job No	MCTPL/BBMP/YNK/PMC/W-8/2020-2021/2/QR
Mix Type	Precast Covering Slab
Contractor	M/s. Sai Ram Construction(Prop Sri A.Sathish Gowda),
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	1
Casting Date	30-Nov-2020
Tested Date	28-Dec-2020

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	28	7.56	150*150*150	2240.00	511.00	0.0225	22.71	23.13	23.16
2	20	28	7.48	150*150*150	2216.30	519.00	0.0225	23.07		
3	20	28	7.69	150*150*150	2278.52	531.00	0.0225	23.60		
4	20	28	7.52	150*150*150	2228.15	522.00	0.0225	23.20	23.20	
5	20	28	7.39	150*150*150	2189.63	524.00	0.0225	23.29		
6	20	28	7.89	150*150*150	2337.78	520.00	0.0225	23.11		

Results: 28-days Compressive strength of Concrete is 23.16 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 08, Byatarayanapura of Yelahanka Zone
Client	Project Division Yelahanka ZONE
Job No	MCTPL/BBMP/YNK/PMC/W-8/2020-2021/2/QR
Mix Type	Precast Covering Slab
Contractor	M/s. Sai Ram Construction(Prop Sri A.Sathish Gowda),
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	1
Casting Date	30-Nov-2020
Tested Date	28-Dec-2020

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	28	7.56	150*150*150	2240.00	511.00	0.0225	22.71	23.13	23.16
2	20	28	7.48	150*150*150	2216.30	519.00	0.0225	23.07		
3	20	28	7.69	150*150*150	2278.52	531.00	0.0225	23.60		
4	20	28	7.52	150*150*150	2228.15	522.00	0.0225	23.20	23.20	
5	20	28	7.39	150*150*150	2189.63	524.00	0.0225	23.29		
6	20	28	7.89	150*150*150	2337.78	520.00	0.0225	23.11		

Results: 28-days Compressive strength of Concrete is 23.16 N/mm2

Note:

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Project Management and Consultancy Services

Summary of Frequencies of Field Tests and Lab Tests Conducted

Name of the work: Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 08, Byatarayanapura of Yelahanka Zone

Job No: MCTPL/BBMP/YNK/PMC/W-8/2020-2021/2/QR

Contractor M/s. Sai Ram Construction(Prop Sri A.Sathish Gowda),

Sl. No	Particulars of the Tests	Concrete (Solid Blocks)			
		Quantity in Sqm	Frequency of Tests	Tests Required	Tests Carried Out
I	Concrete				
1	Compressive strength test	81.36	1 sample per source	1	1

Note: Frequency of tests as per Specifications MORT&H, V Revision, Section 900.

Consultant

Contractor

ASSISTANT ENGINEER

ASSISTANT EXE ENGINEER

Test Report
Solid block

Project Name	Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 08, Byatarayanapura of Yelahanka Zone
Client	Project Division Yelahanka ZONE
Job No	MCTPL/BBMP/YNK/PMC/W-8/2020-2021/2/QR
Mix Type	Concrete (Solid Blocks)
Contractor	M/s. Sai Ram Construction(Prop Sri A.Sathish Gowda),
Material	Soild block (400x200x200 mm)
Sample No	1
Date	15-Dec-2020

SL.NO.	Failure Load in KN	CHARACTERISTIC COMPRESSIVE STRENGTH, fck , in, N/Sq.mm	AVG CHARACTERISTIC COMPRESSIVE STRENGTH, fck in N/Sq.mm	REMARKS
1	465	5.70	5.58	
2	471	5.65		
3	468	5.40		

Results: Compressive strength of solid block is 5.58 N/mm2

Note:

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For Mecadez Core Technologies Private Limited

Authorised Signature

Mecadez Core Technologies Private Limited

Project Management and Consultancy Services

Summary of Frequencies of Field Tests and Lab Tests Conducted

Name of the work: **Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 08, Byatarayanapura of Yelahanka Zone**

Job No: **MCTPL/BBMP/YNK/PMC/W-8/2020-2021/2/QR**

Contractor **M/s. Sai Ram Construction(Prop Sri A.Sathish Gowda),**

Sl. No	Particulars of the Tests	Concrete (Cobble Stone)			
		Quantity in Sqm	Frequency of Tests	Tests Required	Tests Carried Out
IV	Concrete				
1	Compressive strength test	318.13	1 sample per source	1	1

Note: Frequency of tests as per Specifications MORT&H, V Revision, Section 900.

Consultant

Contractor

ASSISTANT ENGINEER

ASSISTANT EXE ENGINEER

Test Report
Interlock pavers

Project Name	Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 08, Byatarayanapura of Yelahanka Zone
Client	Project Division Yelahanka ZONE
Job No	MCTPL/BBMP/YNK/PMC/W-8/2020-2021/2/QR
Contractor	M/s. Sai Ram Construction(Prop Sri A.Sathish Gowda),
Location	Bay
Material	Interlock pavers
Sample No	1
Date	4-Aug-2018

SL.NO	DETAILS	FLEXURAL STRENGTH fcr in mpa	CHARACTERISTIC COMPRESSIVE STRENGTH, fck , in, N/Sq.mm	AVG CHARACTERISTIC COMPRESSIVE STRENGTH, fck in N/Sq.mm
1	Paver Block	4.05	35.60	35.83
2	Paver Block	3.95	36.00	
3	Paver Block	3.90	35.90	

Results: s Compressive strength of Interlock pavers is 35.83 N/mm2

Note:

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Project Management and Consultancy Services

Summary of Frequencies of Field Tests and Lab Tests Conducted

Name of the work: **Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 08, Byatarayanapura of Yelahanka Zone**

Job No: **MCTPL/BBMP/YNK/PMC/W-8/2020-2021/2/QR**

Contractor **M/s. Sai Ram Construction(Prop Sri A.Sathish Gowda),**

Sl. No	Particulars of the Tests	Concrete (Kerb Stone)			
		Quantity in Nos	Frequency of Tests	Tests Required	Tests Carried Out
I	Concrete				
1	Compressive strength test	1057	1 sample per source	1	1

Note: Frequency of tests as per Specifications MORT&H, V Revision, Section 900.

Consultant

Contractor

ASSISTANT ENGINEER

ASSISTANT EXE ENGINEER

Test Report
Kerb stone

Project Name	Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 08, Byatarayanapura of Yelahanka Zone
Client	Project Division Yelahanka ZONE
Job No	MCTPL/BBMP/YNK/PMC/W-8/2020-2021/2/QR
Contractor	M/s. Sai Ram Construction(Prop Sri A.Sathish Gowda),
Location	Bay
Material	Kerb stone
Sample No	1
Date	8-Aug-2018

SL NO	Failure Load in KN	CHARACTERISTIC COMPRESSIVE STRENGTH, fck , in, N/Sq.mm	AVG CHARACTERISTIC COMPRESSIVE STRENGTH, fck in N/Sq.mm	REMARKS
1	486	16.20	16.37	
2	482	16.40		
3	480	16.50		

Results: Compressive strength of kerb stone is 16.37 N/mm2

Note:

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